

Environmental and Social Monitoring Report

Project Number: 49450-012
Semi-Annual Report
January - June 2021
July 2021

Tonga: Renewable Energy Project

Prepared by Entura for the Ministry of Finance and National Planning, and the Asian Development Bank.

This environmental and social monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

Semi Annual Safeguards Report

July 2021

Tonga Renewable Energy Project (TREP)

Prepared for the Ministry of Finance and National Planning, Government of Tonga for the Asian Development Bank.

This environmental and social monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

TREP SEMI ANNUAL SAFEGUARDS REPORT

26 1 July 2021

Prepared by Hydro-Electric Corporation
ABN48 072 377 158

t/a Entura, 89 Cambridge Park Drive,
Cambridge TAS 7170, Australia



WE OWN. WE OPERATE. WE CONSULT.

Entura in Australia is certified to the latest version of ISO9001, ISO14001, and OH&S ISO45001.

©Entura. All rights reserved.


Entura has prepared this document for the sole use of the client and for a specific purpose, as expressly stated in the document. Entura undertakes no duty nor accepts any responsibility to any third party not being the intended recipient of this document. The information contained in this document has been carefully compiled based on the client's requirements and Entura's experience, having regard to the assumptions that Entura can reasonably be expected to make in accordance with sound professional principles. Entura may also have relied on information provided by the client and/or other parties to prepare this document, some of which may not have been verified. Subject to the above conditions, Entura recommends this document should only be transmitted, reproduced or disseminated in its entirety.

Document information

Document title	TREP Semi Annual Safeguards Report
Client organisation	Tonga Power Limited
Client contact	Setitaia Chen
ConsultDM number	E308538
Project Manager	David Skinner
Project number	P516114

Revision history

Revision 1.3

Revision description	Issued for disclosure		
Prepared by	Estrellita Fulivai, John Cook & David Proctor	On file	26/08/2021
Reviewed by	David Skinner		7/9/2021
Approved by	Simon Wilson	On File	7/9/2021
	(name)	(signature)	(date)
Distributed to	Ranishka Wimalasena	ADB	7/9/2021
	(name)	(organisation)	(date)

Contents

1. Introduction	7
1.1 Project background	7
1.2 Project categorisation	8
1.3 Institutional arrangements	8
1.4 Report Structure	9
2. Safeguard Works	10
3. Safeguards Status	11
3.1 Social safeguards	11
3.2 Community Consultation	11
3.3 Land Completion	12
3.4 Environmental safeguards	14

1. Introduction

1. This is the second Semi Annual Safeguards Report as at 30 June 2021 for the Tonga Renewable Energy Project (TREP). The report covers the period 01 January – 30 June 2021. The purpose of the report is to document social and environmental safeguard monitoring activities and their results. Compliance with ADB social and environmental safeguard requirements including land acquisition, and the respective Initial Environmental Examination (IEE) reports is also assessed. At this stage, the construction at the sites of Tongatapu is now focusing on the installation of Battery Modules at TREP 1. At this stage, construction works at the sites for TREP 01 and 02 are focussed on the completion of electrical works with all civil works completed. Detailed design for TREP 03 Lots 1 and 2 is well progressed and equipment procurement has commenced. Civil works for TREP 03 project sites have yet to commence largely due to unforeseen delays as a result of the ongoing COVID-19 situation. Hence, this report is provided to detail the current monitoring plans, design and construction monitoring, contractor activities and project status. This report also serves as a Land Acquisition Report, with only minor land finalisation tasks remaining.

1.1 Project background

2. The TREP was formed under the ADB's Regional Transaction Technical Assistance (R-TRTA) 9242-REG program. This program includes project preparation, detailed design, and procurement support for renewable energy projects in the 11 smaller Pacific island countries including Tonga under the proposed Pacific Renewable Energy Investment Facility, with a significant portion of Green Climate Fund (GCF) funding. TREP will implement a range of renewable energy subprojects to significantly increase Tonga's share of renewable energy, shifting away from traditional fossil fuel use.
3. The following subprojects are being implemented under TREP, with the numbering and Lots each representing different work packages and contracts;
 - TREP 01 - grid stability BESS at Popua Power station, Tongatapu (7.2 MW/3.8 MWh)
 - TREP 02 - Load shifting BESS at the Villa, Tongatapu (6 MW/ 20.88MWh)
 - TREP 03 – Lot 1
 - 350 kW solar PV facility and 1003 kW/ 1,856 kWh BESS at 'Eua
 - 300 kW solar PV facility and 1003 kW/ 2,007 kWh BESS at Vava'u
 - TREP 03 – Lot 2
 - Solar PV /BESS micro-grid, including low voltage distribution system, for the following islands in the Ha'apai group:
 - 'O'ua
 - Tungua
 - Kotu
 - Mo'unga'one

- Solar PV – BESS micro-grid, including medium / low voltage distribution system, at Niuafu'ou.

In 2008, the Government of Tonga issued the Renewable Energy Act and then formulated the Tonga Energy Road Map, 2010 – 2020 (TERM). Under TERM, Tonga established its nationally determined contributions, which include the following generation (supply side) targets:

- By 2020, 50% of all electricity to be generated from renewable energy; and
- By 2030, 70% of all electricity to be generated from renewable energy.

The TREP is a suite of renewable energy projects targeting the energy needs of eight separate islands within the Kingdom of Tonga. Together with other initiatives underway by the Government of Tonga, it will contribute substantially towards the TERM targets. TREP is estimated to enable, through IPP's, contribution of around 28% toward the 2020 TERM target.

1.2 Project categorisation

4. The project has been assigned an ADB Safeguard Category B for Environment and Involuntary Resettlement and Category C for Indigenous Peoples.
5. The ADB Safeguard Category B for Involuntary Resettlement and Indigenous Peoples was assigned due to the need to lease private-owned lands and potential impacts to non-land assets including crops and trees. The project does not involve physical displacement of people and/or destruction of physical structures. It will, however, need to access approximately a total of 60.3 acres (24.4Ha) of private land allotments for Tongatapu and the Outer Islands. These range in size from 1,500 m² to about 2.5 acres per allotment. The government approach to secure required land is through land deeds.

1.3 Institutional arrangements

6. The Government of Tonga is the grant beneficiary, represented by the Ministry of Finance and National Planning (MFNP), who are the project executing agency (EA) and are responsible for compliance with ADB environmental and social safeguards. Tonga Power Limited (TPL) and the Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Climate Change, Environment and Communications (MEIDECC) are the implementing agencies (IA). A Project Steering Committee (PSC) and Project Management Unit (PMU) have also been established. The projects organisational structure is shown in Figure 1.1.
7. A contract for Construction Support Consultant, (CSC) was signed between TPL and Entura and the contract became effective as at November 2019, funded by the Government of Australia Grant 0642-TON: Renewable Energy Project.
8. The principal national agency charged with environmental protection is the MEIDECC. The role of MEIDECC is to protect the environment and promote sustainable development. MEIDECC also approves the environmental assessment for development projects. It is also the agency required to respond to any complaints from the public about environmental issues.



```
graph LR; A[Semi-Annual Safeguards Report (December 2020)] --- B[LARAP Reporting]; A --- C[GAP Reporting]; A --- D[IEE Reporting]; A --- E[Documentation];
```

Semi-Annual Safeguards Report (December 2020)

- LARAP Reporting
- GAP Reporting
- IEE Reporting
- Documentation

2. Safeguard Works

9. The TREP project is currently meeting most project safeguards and schedule targets despite the current global Covid-19 situation. All major contracts have been awarded and project commitments and payments remain substantially on schedule.
10. At this time, the full extent of delays is unpredictable, and several mitigations are already being implemented; remote work is continuing in order to progress planning and design works. Accelerated concurrent work programs planning is being undertaken for after shutdowns are lifted.
11. During the reporting period electrical construction works for TREP 01 and 02 have progressed. The Turnkey contractor (Akuo Energy) is continuing to engage a local subcontractor to complete electrical works which are expected to be completed by October 2021. Two international consultants were able to enter Tonga to assist with the completion of the electrical works. Safeguard monitoring has been completed monthly with no significant issues identified. Contractors have been found to be complying with the approved CESMP.
12. The TREP 03 Lot 1 Component: Location in Vava'u is anticipated to conduct land clearance in July 2021. The schedule for the implementation of Lot 1 anticipated to complete by January 2022. Location in 'Eua is scheduled to commence in October 2021 and expected to complete in May 2022. Designing of solar farm and BESS for Lot 1 has completed.
13. The status of Lease agreements for TREP 3 Lot 2 are still outstanding as Kotu and 'O'ua are still in progress with the Ministry of Lands, Survey and Natural Resources (MLSNR) and with other agencies as detailed in Table 1. Land Deeds for Niuafu'ou, Tungua and Mo'unga'one has been secured and filed by the PMU. Designing of the solar farm and BESS for Lot 2 has completed.

3. Covid-19 actions have now been included in the project Health, Safety and Emergency Response plan (including contractors) in Appendix E. Summary of monitoring activities, results, and follow-up actions

3.1 Social safeguards

14. This report covers social safeguards and land completion. Social safeguards (compliance, monitoring and reporting) are in place, although restriction on travel and access associated with Covid-19 restriction have affected travel, consultations, and monitoring.
15. Core safeguards concepts were covered with principal stakeholders during the (ADB attended) inception mission, prior to the reporting period. Safeguards reporting and responsibilities are spread across a range of project stakeholders.



3.2 Community Consultation

16. The PMU has managed to start site visits to collaborate with the affected communities at the Ha'apai Outer Islands. The team was only able to cover one island (Mo'unga'one island) due to bad weather. The rest of the islands will be completed and reported on during the next reporting period. The summary of the consultation at Mo'unga'one can be found in Appendix B.



Figure 1 - Project Manager (Mr. Simon Wilson), Entura (Mr. Fehoko Manu) and the Mo'unga'one Community who participated in the consultation. Photo was taken by National Safeguard Specialist (Ms. Estrellita Fulivai)

3.3 Land Completion

17. The following lands are required under this project:

- 'Eua:
 - 350 kW solar PV site
- Vava'u:
 - 300 kW solar PV site
- Ha'apai group:
 - 'O'ua – small solar PV site
 - Tungua – small solar PV site
 - Kotu – small solar PV site
 - Mo'unga'one – small solar PV site
- Niufo'ou:
 - substation sites, quantity (if any) to be determined in contractor preliminary designs
 - medium solar PV site

18. For TREP-01 & 02 the Popua power station BESS and the Villa BESS on Tongatapu, there are no ongoing land acquisition issues as outlined in the Resettlement Plan (RP); the two allotments already leased by Tonga Power Limited to build additional battery storage facilities (Popua and Villa). These are attached to the RP. The applicable lease was received subsequent to development, consultation, and signing.

19. For TREP-03 Lot 1; Land acquisition has been progressed. For 'Eua there has been a change in the solar array site due to land holder negotiations between TPL and the local stakeholders. Voluntary land transfer and land use agreements have been executed. The applicable lease was received subsequent to development, consultation, and signing.
20. During Q3 2020 a special meeting with the Vava'u growers was held to agree on a way forward on the growers' crop on the TPL leased land for Vava'u Solar Project, and it was agreed to mobilize from the Project site by December 2020. The growers were also requesting for the Project to assist them financially to uproot their crops as most have lost their jobs due to COVID-19. The request in question was taken and tabled with TPL's Board and was opted out. TPL requested the PMU Safeguard Specialist to leave the growers to the TPL's Board to handle any other issues that may arise in the future and not the Project. TPL, through Mr William Fonua, updated the Vava'u's growers about the status of their request and that they are given the extra 3 years to mature their kava plants before harvesting, as there is no compensation. The Vava'u growers accepted the outcome of their request.
21. The disagreement with growers on the Vava'u site has now been resolved. The project works have been move to a different location on the site in order to allow the growers to complete and harvest their crop. The growers have agreed to leave the site once their produce (Kava) has been harvested. There are no material implications for the project from this and no safeguards issues for the growers. An update of the outcome will be reported in the next reporting period. The land leases are completed on the title lots outlined in the Resettlement Plan, including signing the required lease agreements.
22. Lease agreements and titles for Lot 1 are attached in Appendix **Error! Reference source not found.** and **Error! Reference source not found.**. This work has been undertaken by TPL staff under supervision of the PMU and with monitoring support by the CSC.
23. For TREP-03 Lot 2; Land acquisition is ongoing along with local consultations. The MLSNR is currently drafting leases. It is now expecting to finalize leases by the end of January 2021. The delay is a result of processing times in the MLSNR. Table 1 summarizes the status of each land item.

Table 1 - Status for land items of TREP 3 Lot 2

Location	Name of Island/Village	Safeguard Issue	Current Status as of June 2021
Ha'apai	Mo'unga'one	No issue	Completed. Copy of Land Deed of Lease is filed by PMU.
	Kotu	No issue	Outstanding Ministry of Lands are still progressing with the process to secure Land Deed of Lease.
	O'ua	No issue	Outstanding Ministry of Lands are still progressing with the process to secure Land Deed of Lease.
	Tungua	No issue	Completed. Copy of Land Deed of Lease is filed by PMU.

Niuafo'ou	Mata'aho	No issue	Completed. Copy of Land Deed of Lease is filed by PMU.
-----------	----------	----------	--

3.4 Environmental safeguards

24. Environmental monitoring audit for TREP 01 has been conducted since August 2020. Due to Covid-19 pandemic, TREP 3 has been mostly limited to desktop monitoring of the design and pre-construction phase commitments in the TREP 03 IEE.
25. TREP 01, the Popua power station BESS and the Villa BESS have no identified non-conformances during monitoring to date.
26. During the reporting period, three modular energy storage containers at BESS 01 (Popua Power Station) and five modular energy storage containers at BESS 02 (Villa) have been erected. During construction, compliance will continue to be monitored.
27. TREP 01 has applied for and obtained approval under the EIA Act 2016 and *EIA Regulation 2010* of the Government of Tonga. The application for EIA Approval for TREP 02 has been submitted to MEIDECC – EIA Division and approval has been granted. The application for TREP 03 – Lot 1 (and Lot 2) has been approved.
28. A building permit under the *Building Control and Standards Act 2016* of the Government of Tonga, has been secured for TREP 01. An application for building permit has been submitted to the Ministry of Infrastructure – Building Division and approval has been granted. The application for a building permit for TREP 03 has yet to be submitted.
29. CESMP's from both contractors have been reviewed and are being implemented.
30. A summary of the results of monitoring of the Project Management Unit and Construction Support Consultant Monitoring Activity Plan are contained in Appendix C. Detailed monitoring checklists covering the design and pre-construction works are contained in Appendix D.

Appendices

A Training Log

Training Log (MEIDDEC and TPL)

Date	TREP	Location	IA	Description	Attendees	Male	Female	Ratio (M: F)	Hyperlinks/ Doc. Ref.
12 Dec 2019	All Outputs	Nuk	ADB	Safeguards and Gender Training	17	13	4	77: 23	MOU Dec 2019
19 Mar 2020	All Outputs	Nuk	CSC	TREP Safeguards Workshop	8	7	1	88:12	Training List of Participants
22 June 2020	TREP 02	Nuk	PMU with the collaboration of Principal Contractor (Akua Energy)	GBV/STD/Sexual Harassment Training	25	19	6	76:24	Training List of Participants
November 2020	TREP 01	Nuk	PMU with the collaboration of Principal Contractor (Akua Energy)	GBV GBV/STD/Sexual Harassment Training	28	22	6	79:21	Training List of Participants

B Land Completion Matrix

Step		Current Status	Further Actions and Expected Completion Date
1	Confirmation of land requirements and identification of land owners. Contact land owner (through the Town Officer)		
	'Eua:	Completed.	None.
	Vava'u:	Completed.	None.
	'O'ua	Completed.	None.
	Tungua	Completed.	None.
	Kotu	Completed.	None.
	Mo'unga'one	Completed.	None.
	Niuafo'ou	Completed.	None.
2	Meet with land owner to confirm initial agreement to lease the land. Verify land ownership status, government land valuation and market valuation		
	'Eua:	Completed.	None.
	Vava'u:	Completed.	None.
	'O'ua	Completed.	None.
	Tungua	Completed.	None.
	Kotu	Completed.	None.
	Mo'unga'one	Completed.	None.
	Niuafo'ou	Completed.	None.
3	Agree proposed compensation amount within TPL and MEIDECC before negotiation with land owner. Organize follow-up meeting with land owner, or representative, to negotiate price. Allow time for land owner to consult with family and own land valuer.		
	'Eua:	Completed.	None.
	Vava'u:	Completed.	None.
	'O'ua	Completed.	None.
	Tungua	Completed.	None.
	Kotu	Completed.	None.
	Mo'unga'one	Completed.	None.

Step		Current Status	Further Actions and Expected Completion Date
	Niuafo'ou	Completed.	None.
4	Prepare government lease form and compensation agreement form. Facilitate signing and payment of lease form and compensation agreement (50% payment or as per agreement) with land owner(s) with Third Party Validation. Compile forms and return to MLSNR for Minister's endorsement to get to Cabinet approval. Submit for Cabinet approval		
	'Eua:	Completed.	None.
	Vava'u:	Completed.	None.
	'O'ua	Final process of Land Deed of Lease with the Ministry of Lands and Natural Resources.	Ministry of Lands and Natural Resources to update the PMU on the status and expected completion date.
	Tungua	Completed.	None.
	Kotu	Final process of Land Deed of Lease with the Ministry of Lands and Natural Resources.	Ministry of Lands and Natural Resources to update the PMU on the status and expected completion date.
	Mo'unga'one	Completed.	None.
	Niuafo'ou	Completed.	None.
5	Payment (final 50% or as per agreement with land owners). Collect Deed of Lease from MLSNR. Final land survey and submission to MLNSR for filing.		
	'Eua:	Completed.	None.
	Vava'u:	Completed.	None.
	'O'ua	Completed.	MLNR to release Land Deed of Lease to be collected by end of August 2021.
	Tungua	Completed.	None.
	Kotu	Completed.	MLNR to release Land Deed of Lease to be collected by end of August 2021.
	Mo'unga'one	Completed.	None.
	Niuafo'ou	Completed.	None.
6	Proponent submits the Deed of Lease and compensation completion report to ADB		

Step		Current Status	Further Actions and Expected Completion Date
	'Eua: Vava'u: 'O'ua Tungua Kotu Mo'unga'one Niuafu'ou	TBC	Report TBC in September 2020

C Environmental Safeguard Monitoring Matrix

The following matrix presents the current status of environmental commitments contained in the IEE.

TREP 01/02

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
Pre-construction			
Design and plant/equipment selection – climate change	Proposed siting has addressed climate change risk	Complete Siting addresses risk of increase storm surges associated with climate change.	
	Project detailed design and bidding packages to ensure equipment selected is resilient to climate change.	Bidding and contract documents included requirement to design and install the BESS to meet performance requirements in full range of environment conditions including those influenced by climate change.	
	Plant/equipment selected for low emissions;	Complete No equipment associated with TREP 0102 produces emissions during operation.	
	Transformers and other electrical system equipment to be free of polychlorinated biphenyls (PCB's).	Complete Mineral oil transformers (Celduc) that do not contained PCBs specified in detailed design.	
Project environmental	PMU to establish ESU and allocate staff and resources for effective operation	Complete ESU established and staff and resources allocated.	

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
management systems	ESU updated project EMP and includes conditions of GOT approvals in BCD	Final GoT approval not yet obtained. Conditions associated with approval will be included in updated IEE but cannot be included in BCD.	Update IEE/EMP (and monitoring matrix) to include conditions of GoT approval
	BCD requires contractor to: (i) comply with applicable COEP; (ii) designate full-time EHSO, Deputy EHSO and CLO; (iii) implement monitoring and reporting plan; (iv) provide induction and training for workers (and community) as specified	Complete The BCD included the IEE and referred bidders to the requirements (including listed requirements) in the IEE.	
	Contractor to prepare site-specific CEMP;	The contractor, Akuo Energy, has prepared a draft CEMP for TREP 01 / 02. The CEMP is currently being reviewed by the ESU	
	CEMP reviewed and cleared by ESU prior to works commencing.	The CEMP is currently being reviewed by the ESU and works will not commence until the CEMP is cleared.	ESU to clear CEMP
Complaints/ grievances	CCP updated and GRM established;	Complete	
	Procedure for accessing GRM disclosed;	Not yet complete	
	Grievance focal points (GFP) appointed;	Not yet complete	
	Contractor addresses relevant elements of CCP and GRM in CEMP;	The CEMP is currently being reviewed by the ESU	ESU to ensure CCP and GRM addressed in CEMP
	GRM registers established at site and PMU	Not yet complete	
Alien or invasive species / Local	All materials, plant and equipment imported for the project to follow Quarantine Act and Quarantine regulations and requirements of Quarantine and Quality Management Division – MAFF	No materials, plant or equipment imported at time of monitoring. BCD (and draft CEMP) commits contractor to compliance with	Monitor compliance of imported material with Quarantine Act.

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
material sourcing		Quarantine Act and associated regulations.	
	Phytosanitary certificates obtained as required	No materials, plant or equipment imported at time of monitoring.	Monitor compliance of imported material with Quarantine Act.
	Locally sourced materials only obtained from sources agreed by resource/land owner	Material sources yet to be determined at the time of monitoring	Monitor material sources to ensure compliance.
	Locally sourced materials to comply with GOT laws and obtain permits and consents as required	Material sources yet to be determined at the time of monitoring	Monitor material sources to ensure compliance.
	Materials extraction plan to be prepared by contractor and approved by PMU.	Material sources yet to be determined at the time of monitoring	Monitor material sources to ensure compliance.
Site selection - Visual and landscape impacts	Site selection, application of COEP 1 and COEP 14	COEPs unable to be sourced at the time of monitoring (<i>since been obtained monitoring matrix will be updated in next reporting period</i>)	Update monitoring matrix and assess compliance.
	Careful selection of site away from inhabited areas. For sites close to residences (minigrids) ensure available land for buffer	Complete Sites located away from residences and adequate buffers allowed.	
	Retain boundary vegetation if possible or replant upon works completion.	Complete No clearance of boundary vegetation anticipated	
Land use changes	Site selection and application of COEP 1;	COEPs unable to be sourced at the time of monitoring (<i>since been obtained monitoring matrix will be updated in next reporting period</i>)	Update monitoring matrix and assess compliance.
	Timely and effective consultation		
	Negotiation with land owners/lease holders		
Clearing beyond	Care taken to only clear and remove trees as marked on approved plan;	Site clearing not commenced at the time of monitoring.	Monitor during site clearance

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
marked areas - ecological	Trees to be protected clearly marked on site	Site clearing not commenced at the time of monitoring.	Monitor during site clearance
Land acquisition/lease, asset removal/acquisition	Affected people will be compensated as per entitlement matrix in resettlement plan (RP)		
	Application of COEP 3	COEPs unable to be sourced at the time of monitoring (<i>since been obtained monitoring matrix will be updated in next reporting period</i>)	Update monitoring matrix and assess compliance.
	Consultation will be ongoing and transparent		

TREP 03

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
Pre-construction			
Design and plant/equipment selection – climate change	Proposed siting has addressed climate change risk	Complete	
	Project detailed design and bidding packages to ensure equipment selected is resilient to climate change.	Complete	
	Plant/equipment selected for low emissions;	Complete No equipment associated with TREP 03 produces emissions during operation.	
	Transformers and other electrical system equipment to be free of polychlorinated biphenyls (PCB's).	Complete The BCD specifies compliance with AS/NZS 60076.11 (IEC 60076) Power transformers – dry type transformers and that pole mounted stepdown transformers shall use insulating oil to AS 1767.1 with no bio-oils.	
Project environmental management systems	PMU to establish ESU and allocate staff and resources for effective operation	Complete ESU established and staff and resources allocated.	
	ESU updated project EMP and includes conditions of GOT approvals in BCD	Complete Final GoT approval not yet obtained. Conditions associated with approval will be included in updated IEE but cannot be included in BCD.	
	BCD requires contractor to: (i) comply with applicable COEP; (ii) designate full-time EHSO, Deputy EHSO and CLO; (iii) implement monitoring and reporting plan;	Complete The BCD included the IEE and referred bidders to the requirements (including listed requirements) in the IEE.	

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
	(iv) provide induction and training for workers (and community) as specified		
	Contractor to prepare site-specific CEMP;	Complete CESMP has endorsed.	
	CEMP reviewed and cleared by ESU prior to works commencing.	CEMP yet to be prepared at the time of monitoring	
Complaints/grievances	CCP updated and GRM established;	Complete	
	Procedure for accessing GRM disclosed;	Complete	
	Grievance focal points (GFP) appointed;	Complete	
	Contractor addresses relevant elements of CCP and GRM in CEMP;	Complete	
	GRM registers established at site and PMU	Complete	
	Niuafo'ou site consultation with Tonga Airports Limited and application of COEP 17.	Complete	
Alien or invasive species / Local material sourcing	All materials, plant and equipment imported for the project to follow Quarantine Act and Quarantine regulations and requirements of Quarantine and Quality Management Division – MAFF	Complete	
	Phytosanitary certificates obtained as required	Complete	
	Complete	Complete	
	Locally sourced materials to comply with GOT laws and obtain permits and consents as required	Complete	
	Materials extraction plan to be prepared by contractor and approved by PMU.	Complete	
Site selection - Visual and	Site selection, application of COEP 1 and COEP 14	Complete	
	Careful selection of site away from inhabited areas. For sites close to residences (minigrids) ensure available land for buffer	Complete	

Project activity/ stage	Environmental Commitment	Current Status	Further Actions
landscape impacts	Retain boundary vegetation if possible or replant upon works completion.	Complete	
Land use changes	Site selection and application of COEP 1	Complete	
	Timely and effective consultation	Complete	
	Negotiation with land owners/lease holders	Complete	
Clearing beyond marked areas - ecological	Care taken to only clear and remove trees as marked on approved plan;	Complete	
	Trees to be protected clearly marked on site	Complete	
Land acquisition/lease, asset removal/acquisition	Affected people will be compensated as per entitlement matrix in resettlement plan (RP)	Complete	
	Application of COEP 3	Complete	
	Consultation will be ongoing and transparent	Ongoing	

D Subproject environmental monitoring checklists

TREP 01/02 –design and pre-construction		Inspection Date: January – June 2021	
Monitor(s)		Inspection Time:	
Name: David Procter / Estrellita Fulivai	Position: International Safeguards Expert / National Safeguards Expert	Start time: NA	Finish time: NA

Item No.	Audit Element	Source	Findings (OK, NC or NA)	Comments	Actions
Stakeholder Engagement and Consultation					
01	The community is advised of potential projects and how they can receive information about and become involved with it.	COEP 3.4.1	Ok	Community Consultation was conducted one week before civil works commence.	Completed.
	Consultation undertook at early stages in and throughout the decision-making process or at least ongoing communication after a decision has been made.				
Grievance/Complaints Mechanism					
02	The grievance/complaints mechanism has established as early as possible in the project development phase, including accessible and responsive means for stakeholders to raise concerns and grievances about the Project.	COEP 3.4.5, IEE	Ok	A grievance Mechanism System has been established for the Project before civil works commence. Contractors have been informed and are aware of the system. PMU has informed Contractors on how to handle complaints. Endorsed CEMP by PMU consists of measures on protocols/codes of social conduct. No complaints received by PMU. HIV/AIDS/STI awareness session has conducted for the contractors. A portable toilet is at the TREP 1 worksite. Workers are using TPL's gym bathroom. The project Notice board in English has been erected. Access restrictions are managing by security at the entrance gate. Local people are hired by Sub-contractor (Fletcher Construction).	No Action is required.
	Ensure that the community and stakeholders are aware of the GRM and how to access the GRM				
	PMU-ESU and CLO to facilitate agreement of protocols--code of social conduct—between the contractor and community leaders. The protocols will govern workers' conduct while in communities, behaviour around women and children, restrictions on alcohol consumption, prohibitions (with sanctions for non-compliance) on hunting or fishing, implementation of awareness programs, implementation of the GRM, and handling of complaints, hiring of local labour, and implementation of the HSP				
	The contractor will engage/recruit an approved service provider to deliver the HIV/AIDS/STI awareness and prevention program to workers and community				
	Workers' access to portable toilets and associated sanitation facilities will be provided at the site(s)				
	The contractor will erect notice boards and distribute information pamphlets regarding the schedule of construction and activities causing disruptions or access restrictions				
	All notice boards/signage to be in English and Tongan				
	For unskilled activities, every effort to hire local people (including women) as a priority				
	Accidental damage to utilities will be minimized by (i) obtaining plans from public utilities identifying locations of pipelines, conduits and power cables and (ii) consultation with staff on the location of utilities prior to commencing excavation operations.				
Restriction of Access					
	The site access process allows for non-critical risk control-compliant vehicles to enter the worksite.	COEP 3 4.5, CEMP Traffic Management Critical Risk Controls, CEMP 4.6.1.6	Ok	Access to the site has security with a form to sign to manage who enters and exits the site.	No action is required.
	The Project site should have a minimum of two (2) points of access. Access and perimeter roads will have a minimum trafficable width of 4 meters of all-weather construction. Vehicle access should be provided around the solar arrays and inside the perimeter fence.			Points of access are sufficient and safe.	
	Internal roads, where possible, should be through roads. Alternatively, internal roads should incorporate a turning area for fire fighting vehicles at the end of the road or passing bays every 200 meters. The installation of dead-end roads should be avoided if possible.			Roads at the sites are satisfactory if firefighting vehicles enter and leave.	
	Access gates must be broad enough and in good condition for entry and exit of fire fighting vehicles.			The access gate is wide enough.	
Cultural Heritage					
04	Protocols are developed to avoid or mitigate significant adverse environmental effects, both transient and permanent, on physical and cultural resources.	COEP 4	Ok	There is no Cultural Heritage at the project sites.	No action is required.
Construction and Decommissioning					
Land Clearance					
05	Clearance of vegetation not to disrupt wildlife and their habitats, in addition to manual hand clearing and herbicide use.	COEP 5.6.2, IEE	NA	No Comment.	No action is required.
	Affected people to compensate as per the entitlement matrix in the resettlement plan.			No Comment.	No action is required.
Construction Water Quality					
06	Efficient oil and grease traps or sumps should be installed and maintained at refueling facilities, workshops, fuel storage depots, and containment areas. and spill kits should be available with emergency response plans.	COEP 5.6.6	Ok	Implementing the electrical works. No oil nor fuel is present in the area yet.	No action is required.

	Sanitary wastewater should be managed via reuse or routing into septic or surface treatment.			No water is drained at the site.	
	Provide for separation of clean and dirty stormwater, minimize run-off, avoid erosion of exposed ground surfaces, avoid sedimentation of drainage systems, and minimize polluted areas' exposure to stormwater.			No dirty storm water at the site.	
Air quality, fugitive emissions, dust control					
07	Reduce the speed of all vehicles entering and working within site to reduce potential dust	IEE CEMP (4.6.1.1) IEE COEP 5 (6.7)	Ok	Vehicles reduce speed when working and entering the site.	No action is required.
	Traffic movement around the site shall be confined to internal roads where practicable and vehicle speeds are restricted to 30 km/hr on site.			Traffic does not disturb the movement of trucks going in and out of the site.	
	A water truck will spray the site and local roads as required as per the water spraying schedule on days there is no rain.			No need for a water truck.	
	Internal roads without hardstand shall be regularly swept and watered through water trucks' use according to a water spraying schedule on days when there is no rain. Local roads without hardstand will also be sprayed as required. Any water runoff from dust suppression shall be minimized to prevent contamination to surface waters.			NA	
	Trucks carrying material should be covered with a tarpaulin so that any material will not be spilled during transportation between the project site and boat anchorage area or local material source.		Trucks carrying materials are covered.		
	Movement of soils or dust onto external roads shall be regularly monitored and the frequency of road sweeping increased, as necessary.		It has showered with rain every other day; hence dust is not an issue as of now.		
08	Regular cleaning (washing) of construction vehicles in a dedicated location to reduce dust on site.	IEE	Ok	The cleaning of vehicles is satisfactory.	No action is required.
	Construction vehicles will be cleaned in a dedicated area regularly to reduce dust on site.	CEMP (4.6.1.1)		Dust due to construction vehicles is not an issue.	
	Laydown and high traffic areas should be covered with hardstand where practicable.	Laydown does not need to be covered. Materials are in a shed.			
09	Stockpiles shall be located with consideration for dust issues and shall be appropriately covered and secured with plastic/erosion control matting/hydro much during windy periods or stockpiled for long periods. Stockpile height shall be minimized.	CEMP (4.6.1.1) COEP 5 (6.7)	Ok	No stockpile on site.	No action is required.
10	Visual monitoring of dust generated will be conducted daily. Visual monitoring of dust should include checks for visible dust crossing the site boundary. Appropriate mitigation measures shall be implemented to reduce the dust generated when visible dust is observed.	CEMP (4.6.1.1)	Ok	No issue with the dust observed during the site visit.	No action is required.
	Advance weather warnings shall be regularly monitored and dust-generating activities shall be minimized during high wind periods. Construction activities may need to cease until conditions improve per the direction of the Construction Manager. https://www.accuweather.com/en/to/nukualofa/321278/weather-forecast/321278			The site Manager conducts daily visual monitoring of dust generated on-site.	
	Weekly site inspections will be undertaken to review dust suppression controls.				
	Should a dust suppressant be utilized, records documenting maintenance inspections and application history details will be maintained.				
Vehicle maintenance					
11	All plant and equipment will be maintained and serviced in accordance with manufacturer specifications by persons competent to undertake such maintenance and servicing.	CEMP (4.6.1.1) COEP (6.7)	Ok	Vehicles are well maintained.	No action is required.
	Regular inspections of internal combustion engines will be undertaken to ensure that smoke is not visible for more than 10 seconds.				
Hazardous substance - odour					
12	Hazardous substances stored on-site will be stored in accordance with safety data sheet requirements in a manner that avoids the emission of odours.	CEMP (4.6.1.1)	Ok	No hazardous substances were observed on-site during the site visit.	No action is required.
The unexpected discovery of cultural artifacts					
13	If there is an unexpected discovery, works should stop as required and recommend only on advice from PMU. Coordination through CLO and E/SS.	COEP 4	NA	No cultural artefacts on both sites.	No action is required.
Construction Noise and Vibration					
14	Daytime (during weekdays and on Saturdays) construction noise limit of 75 dB LAeq or limited to the people living nearby.	COEP 5.6.4	Ok	The contractor is complying with to noise limit.	No action is required.
Earthworks and stockpile management					
15	Earthworks should avoid the disturbance of existing vegetation and minimize the need for erosion control.	COEP 5.6.5.2	Ok	The contractor is complying.	No action is required.
	Topsoil is preserved and reinstated at the end of the construction period.	IEE			
	Earth excavated for footings and facility platforms be stockpiled at designated areas within site and reused if possible.	IEE			
	Stockpile material that cannot be reused will be distributed around the site and leveled; excess material will be removed to a designated off-site area approved by the engineer/site supervisor (with permission of the local government and/or landowner).	CEMP 4.6.1.2/3			
	Stockpiled soil to bund and cover, and/or silt fences constructed. Stockpiles shall be constructed with no slope greater than 2:1 (horizontal to vertical) and in locations away from drainage lines and protected from the wind.				
	Stockpiles of clean fill that will not be active for two (2) days or longer shall be covered with plastic or geomembrane.				
	Should stockpiles of clean fill that will not be active for 28 days or longer be present, consideration should be given to revegetation.				
	Silt fencing (for example straw bales or geotextile fences) shall be installed and maintained on site if there is significant potential for erosion.				
	When determining such potential, the following shall be considered: erodibility (type and structure) of the soil, vegetative cover, topography, climate (rainfall and wind) and the nature of land clearing. The type, nature Moreover, the intensity of earthwork on the site will also affect erosion potential.				

	Any soil identified as potentially contaminated or odorous must be removed to a specific location at a safe distance from the work area and any waterways. Potentially impacted soils shall be placed on a liner with appropriate bunding. Such soil may be placed in appropriate bags or bins pending classification and disposal. Personnel must use appropriate personal protective equipment in handling potentially contaminated soils.				
	The bare ground at the site will be seeded/sowed with appropriate grasses species, particularly under the solar panel arrays, to minimize erosion.	IEE			
	Vehicles transporting loose materials will be covered and secured with tarpaulin to prevent dust or spillage.	IEE			
	Site drainage issues, erosion				
16	Aggregate sourcing - Avoid coral rock or beach sand. The only source aggregates from licensed or otherwise authorized operations.	COEP 5.6.5.3	Ok	The contractor is complying with aggregate sourcing	No action is required.
	Groundcover will be maintained where possible and will be reinstated as soon as practicable after construction works have been completed to promote stabilization and reduce runoff, causing sediment discharge. Haul roads will be used for vehicular traffic where feasible.	IEE, CEMP			
	To prevent run-off or water from adjacent land shedding onto the site and creating erosion or siltation, bunds or swales/diversion channels will be installed where required along the site boundary.	CEMP 4.6.1.3			
	Any wastewater generated during construction will be managed through the construction of temporary collection tanks.	IEE			
	Cover/stabilize all exposed surfaces and excavated materials during construction.	IEE			
	Implementing adequate construction site drainage such that runoff is directed to sediment traps before discharge to the environment	IEE			
	All waste-water should not be directed to nor spilled onto any natural watercourse or body.	IEE			
	Close construction supervision to ensure the above measures are implemented.	IEE			
	Provisions of stop work during periods of heavy rainfall.	IEE			
	Regular cleaning and monitoring of sediment fences, silt traps (if installed) and diversion channels, if any, shall be conducted to ensure that these are operating effectively.	CEMP 4.6.1.3			
	Weekly site inspections to undertake to ensure all controls outlined in the Sediment and Erosion Control Plan are in place and are effective.	CEMP 4.6.1.3			
	Sediment controls to review during site inspections and after significant rainfall.				
	The Sediment and Erosion Control Plan to audit every quarter.				
	Daily monitoring for water pooling and water flow generated from piling, drilling and material placement to conduct.				
	Community Health and Safety Management				
17	Hydrocarbon and toxic material will be stored inadequately protected site/s consistent with national and local regulations and codes of practice to prevent soil and water contamination or harm people.	COEP 6, CEMP, HSP, IEE	Ok	No Hydrocarbon and toxic material were observed during the site visit.	No action is required.
	Fuel, oil and hazardous substances must be secured safely at designated areas on site. The fuel and oil storage area will be concreted and bunded for 110% capacity of the largest volume container stored on site.		Ok	Fuel is stored correctly at the shed.	No action is required.
	Store hazardous substances above possible flood levels.		Ok	No Hydrocarbon and toxic material were observed during the site visit.	No action is required.
	All hazardous substances will be stored in a lockable unit within which all substances will be clearly labeled as to what they are, what their use is, and that they are harmful/poisonous.	IEE			
	An appropriate spill kit/spill containment materials will be kept on site and designated workers will be trained in its use.	IEE, CEMP 4.6.4.3	NC	No spill kit/spill containment materials were observed on the site.	Contractor to comply with the
	Refueling of vehicles and plant to be undertaken on concrete pads adjacent to the bunded fuel and oil storage area.	IEE	Ok	Refueling of vehicles is well managed on-site.	No action is required.
	Restriction access to the site, through a combination of institutional and administrative controls, focusing on high risk structures or areas depending on site-specific situations, including fencing, signage, and communication of risks to the local community.		Ok	The contractor is complying.	No action is required.
	Removing hazardous conditions on construction sites that cannot be controlled effectively with site access restrictions, such as covering openings to small confined spaces, ensuring means of escape for larger openings such as trenches or excavations, or locked storage of hazardous materials.		NA	No Hydrocarbon and toxic material were observed during the site visit.	No action is required.
	Consider the application of well established, simple and cost effective safety/public health interventions, such as information and education programs.		NA		
	Liaison with affected communities		Ok	Contractor has conducted community consultation at the beginning of Project.	No action is required.
	Specific emergency response procedures		Ok	Emergency response plan is in place for the Project.	No action is required.
	Emergency contacts and communication systems/protocols				
	Permanently stationed emergency equipment and facilities (e.g., first aid stations, fire extinguishers/hoses, sprinkler systems)	IEE			
	Protocols for fire truck, ambulance and other emergency vehicle services.				
	Evacuation routes and meeting points				
	Drills (annual or more frequently as necessary)				
	Ensure that safe storage of fuel, other hazardous substances and bulk materials are agreed upon by DOE and follow internationally recognized good practice		Ok	The contractor is complying.	No action is required.
	HIV/AIDS/STI awareness and prevention information training for workers and the adjacent community by an approved service provider.	CEMP 4.6.4.3	Ok	Awareness training has been conducted.	No action is required.
	Health and Safety risks for workers				

18	HSP training and “toolbox” session for workers	IEE, COEP 6, CEMP, HSP		Toolbox session is satisfactory.	No action is required.
	First aid facilities (on-site and in vehicles), PPE and medical evacuations routine safety and accident prevention measures; emergency response and preparedness; accidental environmental instance (e.g., spill) procedures highlighting the sizes and types of impacts that may occur, and the resources (onsite and/or offsite) that will be required to handle and treat the spill; accident, near-miss and emergency registry; monitoring and reporting.		Ok	First Aid kit is present on site.	
	Cover both occupational health and safety (OH&S) and community health and safety		Ok	Full time EHSO is looking after the health and safety	
	conduct training for all workers on environmental safety and environmental hygiene		Ok	EHSO has conducted training on environmental safety	
	The contractor will instruct workers in health and safety matters as required by the HSP and good engineering practice and national regulations	Ok	Ok	Full-time EHSO has recruited. The contractor is complying with the endorsed Health and Safety Plan. PPE is applied all the time on-site. Safety procedures for lifting of battery modules are in close watch by the Safeguard Officer for Akuo Energy daily. Provision of sanitation facilities is complying.	No action is required.
	The contractor will designate one full-time staff as EHSO to implement the HSP				
	The contractor will engage an approved service provider to deliver a program of communicable diseases (including HIV/AIDS/STI) awareness and prevention training to workers and the community				
	Conduct regular meetings to maintain awareness levels of health and safety issues and requirements				
	Ensure that first aid kits and facilities, including access to trained medical personnel, is available on site and arrangements in place to ensure medical attention (including evacuation as necessary) of workers who have suffered an accident or sudden illness				
	Ensure adequate spill response kits are provided, accessible and that designated key staff are trained in their use				
	Workers will be trained in use of any special equipment or machinery. Workers will be instructed in use of safety equipment (harness etc.) for working at heights or on scaffolding				
	Observe working hours and official holidays as set out in national law and regulations				
	Excavated trenches must be effectively marked with approved safety signage and/or barrier tape to prevent any accidents; Workers, at no cost to themselves, shall be provided (before they start work) with appropriate PPE suitable for the tasks and activities they will undertake				
	PPE will include safety boots, helmets, gloves, protective clothes, goggles, and ear protection.				
	Instructions on their use around the construction site will be delivered as part of the safety procedures				
	Provision of potable water supply and sanitary toilet and ablution facilities at the site				
	Child and/or trafficked labor will be strictly prohibited for any activities associated with the Project				
	Traffic Management Plan				
19	All relevant traffic signs used for the warning or direction of traffic at the road.	COEP 7. 8.3, IEE, CEMP Traffic Management Plan	Ok	Contractor is complying with the endorsed Traffic Management Plan.	No action is required.
	All signs will be maintained in a clean condition, checked for damage and clear visibility for drivers and others.				
	Detours for communities and pedestrians will be reflected in signs.				
	Collaborate with communities and responsible authorities to improve awareness, signage, visibility, and roads' overall safety, particularly along stretches located near schools or other locations where children may be present.				
	Coordinate with emergency responders to ensure that appropriate first aid is provided in the event of accidents.				
	For large equipment, operating audible reverse alarms and/or amber flashing lights to be fitted as standard items.				
	Trucks to travel to/from the Tapuhia Waste Management Facility to the Project sites no more than twice per week.				
	Heavy vehicle trucks to travel from the quarry to the Project site no more than twice per day.				
	All vehicles used for the haulage of materials shall have fitted tailgates.				
	Biodiversity				
20	Workers are not permitted to cut any trees (including mangroves) other than for site clearance purposes and other than those marked on the approved plan	IEE	NA	Site clearance is not applicable for TREP 1 & 2 as it is locating on an existing building space.	No action is required.
	Workers will be informed about the tree protection/retention and replanting requirements		NA		
	Workers will be instructed that hunting, capture or killing of any birds or other fauna is prohibited, and sanctions (including possible removal from the site) will be imposed on any worker who does not comply		NA		
	Workers will be instructed that diving for sea cucumbers and hunting, capturing or killing turtles, dolphins, and another marine fauna is prohibited, and sanctions (including possible removal from site) will be imposed on any worker who does not comply.		NA		
	Water Quality				
21	Efficient oil and grease traps or sumps should be installed and maintained at refueling facilities, workshops, fuel storage depots, and containment areas, and spill kits should be available with emergency response plans.	COEP 10.3	Ok	The contractor is complying.	No action is required.
	Avoid ponding of water beyond the boundary of the Project property			No ponding of water was observed.	
	Provide for separation of clean and dirty storm water, minimize run-off, avoid erosion of exposed ground surfaces, avoid sedimentation of drainage systems, and minimize polluted areas' exposure to storm water.			The contractor is complying.	

	Generation and management of waste				
22	The site will be kept in a tidy and hygienic condition. Covered rubbish and waste receptacles will be provided on site; as far as is practicable waste will be segregated (organic, plastic/tin and paper/cardboard for potential reuse or recycling).	COEP 11, IEE	Ok	The contractor is complying with the endorsed waste management plan	No action is required.
	The contractor will discuss disposal and reuse/recycling options with the Waste Authority Ltd and GIO Recycling and include any agreed arrangements in the site-specific CEMP.	IEE			
	No on-site burning of waste, especially plastics, will be permitted.	IEE			
	Waste wood will be cut to appropriate lengths and given away as fencing materials or firewood.	IEE			
	Remaining organic materials are to be neatly stockpiled and/or buried (if accepted and approved by the engineer/site supervisor) and allowed to decompose over time.	IEE			
	Waste that cannot be reused will be stored on site in appropriate bins and removed offsite by the contractor to a designated/approved disposal site.	IEE			

TREP 03 –design and pre-construction		Inspection Date: May - June 2020	
Monitor(s)		Inspection Time:	
Name: David Procter / Estrellita Fulivai	Position: International Safeguards Expert / National Safeguards Expert	Start time: NA	Finish time: NA

Item No	Environmental Commitment (all commitments contained in the IEE)	Source	Findings (OK, NC or N/A)	Comments	Actions
Design and plant/equipment selection – climate change					
1.1	Proposed siting has addressed climate change risk	IEE	OK	Completed.	No action is required
1.2	Project detailed design and bidding packages to ensure equipment selected is resilient to climate change.	IEE	OK	Completed.	No action is required
1.3	Plant/equipment selected for low emissions;	IEE	OK	No plant/equipment associated with TREP 03 produces emissions during operation. Consideration has not be given to lifecycle emissions of plant and equipment.	No action is required
1.4	Transformers and other electrical system equipment to be free of polychlorinatedbiphenyls (PCB's).	IEE	OK	The BCD specifies compliance with AS/NZS 60076.11 (IEC 60076) Power transformers – dry type transformers and that pole mounted stepdown transformers shall use <i>insulating oil to AS 1767.1 with no bio-oils</i> .	No action is required
Project environmental management systems					
2.1	PMU to establish ESU and allocate staff and resources for effective operation	IEE	OK	PMU has established ESU and appointed Estrellita Fulivai as the national social and environmental safeguards specialist to support the PMU	No action is required
2.2	ESU updated project EMP and includes conditions of GOT approvals in BCD	IEE	OK	Completed.	No action is required
2.3	BCD requires contractor to: (v) comply with applicable COEP; (vi) designate full-time EHSO, Deputy EHSO and CLO; (vii) implement monitoring and reporting plan; (viii) provide induction and training for workers (and community) as specified	IEE	OK	Completed.	No action is required
2.4	Contractor to prepare site-specific CEMP;	IEE	OK	Completed.	No action is required
2.5	CEMP reviewed and cleared by ESU prior to works commencing.	IEE	OK	Completed.	No action is required
Complaints/grievances					
3.1	CCP updated and GRM established;		OK	Completed.	
3.2	Procedure for accessing GRM disclosed;		OK	Completed.	
3.3	Grievance focal points (GFP) appointed;		OK	Completed.	
3.4	Contractor addresses relevant elements of CCP and GRM in CEMP;		OK	Completed.	
3.5	GRM registers established at site and PMU		OK	Completed.	
3.6	Niuafo'o site consultation with Tonga Airports Limited and application of COEP 17.		OK	Completed.	
Alien or invasive species / Local material sourcing					
4.1	All materials, plant and equipment imported for the project to follow Quarantine Act and Quarantine regulations and requirements of Quarantine and Quality Management Division – MAFF	IEE	NA	Infratec yet to prepare CEMP	
4.2	Phytosanitary certificates obtained as required	IEE	NA	No materials, plant or equipment imported at time of monitoring.	
4.3	Locally sourced materials only obtained from sources agreed by resource/land owner	IEE	NA	Material sources yet to be determined at time of monitoring.	
4.4	Locally sourced materials to comply with GOT laws and obtain permits and consents as required	IEE	NA	Material sources yet to be determined at time of monitoring.	

4.5	Materials extraction plan to be prepared by contractor and approved by PMU.	IEE	NA	Material sources yet to be determined at time of monitoring. Monitoring required to ensure preparation of plan and approval by PMU prior to extraction.	
Site selection - Visual and landscape impacts					
5.1	Site selection, application of COEP 1 and COEP 14	IEE	OK	Completed.	
5.2	Careful selection of site away from inhabited areas. For sites close to residences (minigrids) ensure available land for buffer	IEE	OK	Completed.	
5.3	Retain boundary vegetation if possible or replant upon works completion.	IEE	OK	Completed.	
Land use changes					
6.1	Site selection and application of COEP 1;	IEE	OK	Completed.	
6.2	Timely and effective consultation		OK	Completed.	
6.3	Negotiation with land owners/lease holders		OK	Completed.	
Clearing beyond marked areas - ecological					
7.1	Care taken to only clear and remove trees as marked on approved plan;	IEE	NA	Site clearing not commenced at the time of monitoring.	
7.2	Trees to be protected clearly marked on site	IEE	NA	Site clearing not commenced at the time of monitoring.	
Land acquisition/lease, asset removal/acquisition					
8.1	Affected people will be compensated as per entitlement matrix in resettlement plan (RP)		OK	Completed.	
8.2	Application of COEP 3	IEE	OK	Completed.	
8.3	Consultation will be ongoing and transparent		OK	Completed.	

E Covid 19 Response Plan

E.1 COVID-19 Health and Safety

For COVID-19 Hygiene and Infection Control all workers and staff on TREP are advised to avoid catching or spreading germs by practising good hygiene and help slow the spread of COVID-19.

This means:

- wash your hands often with soap and water. This includes before and after eating and after going to the toilet
- use alcohol-based hand sanitisers when you can't use soap and water
- avoid touching your eyes, nose and mouth
- clean and disinfect surfaces you use often such as benchtops, desks and doorknobs
- clean and disinfect objects you use often such as mobile phones, keys, wallets and work passes
- use tap and go instead of cash where possible
- increase the amount of fresh air by opening windows or changing air conditioning

The following physical distancing measures will be used as mitigation strategies to protect workers and the wider community:

- Reducing numbers of staff on site and limiting physical interactions where possible.
- stop shaking hands to greet others
- avoid non-essential meetings. If needed, hold meetings via video conferencing or phone call
- put off large meetings to a later date
- hold essential meetings outside in the open air if possible
- promote good hand, sneeze and cough hygiene
- provide alcohol-based hand rub for all staff
- eat lunch at your desk or outside rather than in the lunch room
- regularly clean and disinfect surfaces that many people touch
- open windows or adjust air conditioning for more ventilation
- limit food handling and sharing of food in the workplace
- avoid non-essential travel
- promote strict hygiene among food preparation

E.2 COVID-19 mitigation controls reporting

item	TREP-01	TREP0-2	TREP-03
Number of employees on site	Local Workers: 15 Foreign Workers: 2	Local Workers: 5 Foreign Workers: 2	Local Workers: 8 Foreign Workers: 1
Types of work/activities and proximity to others.	Electrical construction and electrical testing	- Electrical construction and electrical testing - painting	- Civil Construction - Diesel controller upgrades
Frequency of daily contact/interaction with 2 or more people.	5 or more times daily	5 or more times daily	5 or more times daily
Accommodation arrangements for foreign staff.	Private/international hotel accommodation (individual rooms)	Private/international hotel accommodation (individual rooms)	Private/international hotel accommodation (individual rooms)
Arrangements for access to health/medical services and evacuation.	- Main hospital in Nuku'alofa - Evacuation provided by contractor insurance	- Main hospital in Nuku'alofa - Evacuation provided by contractor insurance	- Vava'u local medical facilities - Main hospital in Nuku'alofa - Evacuation provided by contractor insurance
Stages of mobilization	Commissioning works continuing (and scheduled to be complete) through the next quarter with similar staffing levels	Commissioning works continuing (and scheduled to be complete) through the next quarter with similar staffing levels	Construction works to be staged consecutively from island to island with small teams (6-12) shifting between sites as needed

F JEIA Approval and Building Permits

(Place holder for next reporting period, to include TREP-01 and TREP-02 approval records yet to be collated from site)